

2025 Dryland Winter Forage Variety

Performance Trials at Akron, Burlington, and Orchard

Akron		Forage Harvest				Grain Harvest				Forage Quality ^a								
		Forage Species ^b	Dry Matter		Harvest Date ^c	Test		Plant Height	Dry									
Brand/Source	Variety		Yield	Moisture		Yield	Weight	Protein		RFQ	CP	Matter	aNDFom	NDFD30	TDN	NEL	NEG	Milk/Ton
			ton/ac	% at harvest		lb/ac	lb/bu	percent	in	percent							lb/ton	
Montana State Univ.	MTF1435	W	5.7	66	29-May	2730	50.5	15	40	114	12.6	93.6	55	59	59	61	34	2578
KWS Cereals	PROGAS	H. Rye	5.3	68	12-May	5097	49.8	11	48	115	14.2	94.1	57	60	60	62	36	2655
PlainsGold	Ray	W	5.3	62	29-May	3312	51.3	14	34	130	13.0	93.7	52	62	62	64	37	2791
PlainsGold	Whistler	W	5.3	66	21-May	4508	55.0	13	36	136	12.8	93.9	49	61	62	64	38	2848
PlainsGold	Amplify SF	W	5.2	66	21-May	3059	54.0	13	33	138	13.9	93.3	49	62	63	65	39	2871
KWS Cereals	AVIATOR	H. Rye	5.0	69	12-May	4768	49.9	9	51	112	13.3	93.5	58	59	59	61	34	2592
Oklahoma Genetics, Inc	Big Country	W	5.0	64	21-May	2790	54.8	14	31	159	12.6	94.4	48	66	64	66	40	3085
Montana State Univ.	MT Cash	W	4.7	65	29-May	2763	54.2	15	43	124	13.2	93.4	53	60	61	63	36	2744
Oklahoma Genetics, Inc	OK Corral	W	4.3	64	21-May	3884	52.5	12	28	141	12.5	93.5	48	61	63	65	38	2893
Montana State Univ.	Willow Creek	W	4.2	62	2-Jun	1621	53.9	-	40	127	13.7	93.8	52	60	61	62	36	2736
		Average	5.0	65	22-May	3453	52.6	13	39	130	13.2	94	52	61	62	63	37	2779
		LSD (0.30) ^d	0.40			175	0.9											
		LSD (0.05) ^d	0.70			345	1.7											
		Coefficient of Variation (CV)	6.6			4.8	1.1											

Burlington		Forage Harvest				Grain Harvest				Forage Quality ^a								
		Forage Species ^b	Dry Matter		Harvest Growth Stage ^c	Test		Plant Height	Dry									
Brand/Source	Variety		Yield	Moisture		Yield	Weight	Protein		RFQ	CP	Matter	aNDFom	NDFD30	TDN	NEL	NEG	Milk/Ton
			ton/ac	% at harvest		bu/ac	lb/bu	percent	in	percent							lb/ton	
Montana State Univ.	MTF1435	W	5.9	53	Soft Dough	45.2	47.9	17	34	144	11.1	90.3	49	47	63	65	38	2969
PlainsGold	Whistler	W	5.8	52	Soft Dough	71.4	54.3	15	32	141	10.1	88.4	48	52	63	65	38	2977
PlainsGold	Ray	W	5.2	55	Milk	51.1	46.6	16	32	139	10.2	90.0	52	55	61	63	35	2905
Oklahoma Genetics, Inc	Big Country	W	5.2	52	Soft Dough	47.4	53.8	16	31	150	12.7	90.1	46	50	63	65	39	3025
Montana State Univ.	MT Cash	W	5.2	54	Soft Dough	41.5	53.3	17	42	131	10.5	89.4	52	44	62	63	36	2768
PlainsGold	Amplify SF	W	4.8	50	Soft Dough	48.7	54.3	15	28	154	11.6	90.8	46	49	65	67	41	3111
Oklahoma Genetics, Inc	OK Corral	W	4.5	50	Soft Dough	64.9	52.5	15	26	143	11.2	90.4	48	49	63	65	38	2930
Montana State Univ.	Willow Creek	W	4.1	54	Milk	20.9	47.4	-	39	111	11.2	89.7	58	50	55	56	27	2359
		Average	5.1	52		48.9	51.3	16	33	139	11.1	90	50	50	62	63	36	2881
		LSD (0.30) ^d	0.4			2.3	0.9											
		LSD (0.05) ^d	0.9			4.6	1.9											
		Coefficient of Variation (CV)	6.7			5.0	1.2											

Orchard		Forage Harvest				Grain Harvest				Forage Quality ^a								
		Forage Species ^b	Dry Matter		Harvest Growth Stage ^c	Test		Plant Height	Dry									
Brand/Source	Variety		Yield	Moisture		Yield	Weight	Protein		RFQ	CP	Matter	aNDFom	NDFD30	TDN	NEL	NEG	Milk/Ton
			ton/ac	% at harvest	Feekes	bu/ac	lb/bu	percent	in	percent							lb/ton	
Oklahoma Genetics, Inc	OK Corral	W	1.7	70	10.5	33.0	56.2	14	30	184	15.7	89.2	49	69	65	67	43	3393
PlainsGold	Whistler	W	1.6	72	10.4	39.7	59.2	14	27	191	14.7	88.1	48	70	65	67	42	3327
PlainsGold	Ray	W	1.5	72	10.2	29.0	55.5	16	34	180	16.5	89.4	48	70	66	68	44	3369
Montana State Univ.	MTF1435	W	1.3	73	10.3	21.5	54.2	15	32	178	17.5	88.2	50	72	64	65	41	3322
Oklahoma Genetics, Inc	Big Country	W	1.3	71	10.5	16.8	52.9	16	28	198	15.6	90.1	47	70	66	68	44	3493
PlainsGold	Amplify SF	W	1.2	72	10.5	31.7	58.5	14	28	167	13.6	89.9	50	61	65	67	41	3185
Montana State Univ.	MT Cash	W	1.2	74	10.1	25.5	55.5	17	38	170	16.9	89.4	48	68	64	66	42	3241
Montana State Univ.	Willow Creek	W	0.9	74	9	24.6	54.1	16	35	154	20.6	88.1	45	64	63	65	42	3068
		Average	1.3	72	10.2	27.7	55.8	15	31	178	16.4	89	48	68	65	67	42	3300
		LSD (0.30) ^d	0.2			2.8	1.0											
		LSD (0.05) ^d	0.5			5.5	1.9											
		Coefficient of Variation (CV)	13.7			9.7	1.6											

^aAll forage quality analyses results are dry basis values. CP=crude protein; RFQ=relative feed quality; aNDFom=ash free neutral detergent fiber; NDFD30=neutral detergent fiber digestibility at 30 hours; TDN=total digestible nutrients using OARDC; NEL=net energy for lactation using OARDC; NEG=net energy gain using OARDC; and Milk/ton=predicted amount of milk produced per ton of dry matter calculated using MILK2013.

^bForage Species: H. Rye=Hybrid Rye and W=Wheat

^cThe harvest dates at Akron were targeted for the early heading growth stage of each entry. The harvest growth stages at Burlington and Orchard were the stage of each entry on the single harvest date of June 16. The Feekes scale rates the flag leaf fully emerged as stage 9, and boot to early heading as stages as 10.1 (boot) through 10.5 (head fully emerged).

^dIf the difference between two variety yields equals or exceeds the LSD value, the difference is significant. Farmers selecting a variety based on yield should use the LSD (0.30) to protect from false negative decisions. Companies or researchers may be interested in the LSD (0.05) to avoid false positive conclusions.

Trials were harvested for grain on July 9 (Burlington), July 10 (Akron), and July 17 (Orchard).

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